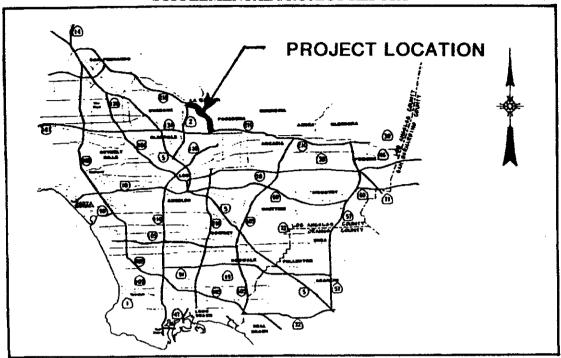
SUPPLEMENTAL PROJECT REPORT



Route 2 to Route 134

I have reviewed the right of way information contained in this Project Report and the R/W Data Sheet attached hereto, and find the data to be complete, current, and accurate.

APPROVAL RECOMMENDED:

DAREK CHMELEWSKI, Project Manager Office of Project Management-South

for FLQ

Office of R/W Project Delivery Manager

CONCURRED:

FRANK L. QUON
District Division Chief

Division of Operations-District 7

LAWRENCE STALEY/Chief

APPROVED:

Date

ROBERT W. SASSAMAN
District Director-District 7

7-LA-210 KP 30.3/40.2 (PM 18.8/24.9) 7-388-129971 HB4N

REGISTERED ENGINEER'S CERTIFICATIONS

This Project Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained therein and the engineering data upon which recommendations, conclusions, and decisions are based.

REGISTERED CIVIL ENGINEER

Date 25, 2000

This authorization is for the following project:

7-LA-210 KP 30.3/40.2 7-389 129971



I INTRODUCTION

It is proposed to upgrade the existing Caltrans District 7 Traffic Congestion Relief Management System (TCRMS)¹ along Interstate Route 210 from State Route 2 to State Route 134. Proposed components of the TCRMS are a fiber optic communication trunkline, closed circuit television (CCTV), ramp metering systems (RMS), and traffic monitoring station (TMS), and will include connections of existing TCRMS elements to the new truckline. Additional capacity and points of connection are proposed for Traffic Operation Congestion Relief Management Support Facilities (TCRMSF), including traffic signal master controllers, irrigation controllers, a census station, and a proposed fiber optic communications system to be installed along State Route 2 and Route 210 north of Route 2. The estimated construction cost is \$5,400,000. This project is proposed to be funded from the SHOPP Contingency program in the 2001-2002 fiscal year. This project has been assigned the Project Development Processing Category 5 because it has minimal economic, social, and environmental impacts.

II RECOMMENDATION

Approval is requested to upgrade and complete a TCRMS along the Route 210 (Foothill Freeway) from the Route 2 Interchange to the Route 134/710 Interchange.

III BACKGROUND

A. Project History

The Route 210 Interstate Route (The Foothill Freeway) is an important component in the regional access system serving commuter, commercial, and shipping needs in Pasadena and other communities in the Foothill District. This project proposes to enhance the reliability functionality of this system by replacing the existing leased communication system with a fiber optic communications system and modifying, enhancing, and completing the existing TCRMS field elements.

The installation of a TCRMS along Route 210 east of Route 710 and along Route 134 west of Route 710 is completed. The installation of a TCRMS along Route 2 is scheduled for construction in October 2001.

B. Existing Facilities

Route 210 (Foothill Freeway) varies from a six to ten lane facilities travelling along the foothills of the San Bernardino Mountains. There are many communities located along this 79.0 kilometer corridor resulting in heavy commuter traffic as motorists travel to

¹TCRMS has previously been identified as Traffic Operations System (TOS)

7-LA-210 KP 30.3/40.2 (PM 18.8/24.9) 7-388-129971 HB4N

various employment destinations throughout Los Angeles County. Portions of the corridor, north of the Pasadena area, experience congestion southbound in the AM peak period and northbound in the PM peak period.

The current TCRMS elements on the project route consists of RMS, TMS, and a changeable message sign (CMS). Existing communication between these elements and the Traffic Management Center (TMC) is via leased full duplex data telecommunications lines.

IV NEED AND PURPOSE

A. Problem, Deficiencies, Justification

The current TCRMS consists primarily of a dedicated, leased telephone line communication network and traffic management field elements. The TCRMS has evolved on the three routes over the past 15 years in an incremental fashion. Ramp meter subsystems, mainline detection subsystems, and motorists information subsystems have been added to the three routes according to funding availability, schedule, technology, and traffic demand criteria. Communication links between the TCRMS field elements and the TMC has also largely evolved on an incremental basis in coordination with the implementation of the TCRMS field elements. Several key factors have emerged over the past few years which highlight the deficiencies associated with the current TCRMS. Greater emphasis is being placed upon managing freeway operations, given increasing traffic demand and dwindling resources for adding physical capacity to the freeway network. Advancing technology also provides greater opportunities to manage freeway operations, but requires more communication capability than currently available with the existing communication subsystem. In recognition of this situation, this project will expand and enhance the TMC and the TCRMS, thereby improving freeway management capabilities on Route 210.

1. Ramp Metering System (RMS)

The system is partially complete; RMS's are proposed in this project.

2. Traffic Monitoring Stations (TMS)

TMS have been installed along the mainline as part of RMS. Stand-alone stations situated between RMS stations are lacking. The ability of the TCRMS to recognize an incident is weakened at these locations. Typically, the distance separating TMS varies from 0.5 mile to 1 mile.

3. Closed Circuit Television (CCTV)

The TMS associated with ramp meter stations can detect fluctuations in mainline traffic flow, which often can be a result, or an indication of, an incident. The only accurate method of determining the exact nature and extent of a detected incident is by visual verification.

While TMS improves the ability of the TMC personnel to remotely detect an incident, it does not provide the ability to confirm the presence and extent of an incident. The existing TCRMS does not have the means to confirm or classify an incident detected by the TMS except by field verification. Knowledge of the extent and nature of an incident is required before corrective action can be employed.

There are no CCTV sites now existing throughout the project limits of this route. The cameras are needed to provide traffic flow verification and confirmation of message on a CMS. Incidents occurring on the route cannot be visually confirmed.

4. Communication System

The existing telecommunication system is not suitable for the transmission of full motion video that is produced by the cameras proposed for the TCRMS. Also, the data communications are now at 1200 baud, but will shortly be raised to 9600 baud, especially for data collection or acquisition points of the Supervisory Control and Data Acquisition (SCADA) system. The existing telecommunications system does not have the required speed or bandwith without using very sophisticated and complex compression and coding hardware.

B. Traffic

Typical existing (1998) Average Daily Traffic (ADT) and (2020) projected (ADT) on Route 210 where TMS elements and communication systems are to be installed are as follows:

Location	AD	T
	1998	2020
Angeles Crest Highway	105,000	220,500
Mountain Avenue	115,000	220,800

Source: Office of Planning and Public Transportation

V ALTERNATIVES

A. Proposed Project

The project consists of installing a new fiber optic/twisted pair cable communications system for data and video communications along Route 210 Freeway. The new system will replace the existing leased line telecommunications system and will greatly improve the reliability, availability and performance of the traffic operations system. Total construction cost estimate for the proposed project is \$5,400,000. Following is a summary of the proposed project components:

• Communication System

The communication system consists of a backbone system using single mode fiber optic cable and established communication design criteria consistent with the system-wide design parameters to insure compatibility and cost effectiveness.

Twisted pair cable will connect to all existing and proposed elements to transmit data. Single mode fiber optic distribution cable will connect to camera sites to transmit video. The system will have capacity to allow for expansion and enhancement in the future. Two 102 mm conduits are proposed to be installed along the outside shoulder of the freeway. Safe and efficient access for Electrical Maintenance crews will be included in the design process.

CCTV Cameras

CCTV was selected as a means to confirm and identify traffic congestion detected by a TMS. CCTV locations were determined through incident analysis, review of the horizontal and vertical topography, turnout considerations, and a review of potential sites. There are 3 locations proposed.

• Ramp Metering System

The existing four RMS within the project limits will be connected to the proposed communication system. All existing loop detector assemblies will be upgraded to current standards. Eight new locations are proposed in this project and will complete the RMS system for this route.

Traffic Monitoring Stations

The TMS (stand-alone) system will be installed in this project and will be connected to the proposed communications system. Three existing stations will be connected to the proposed communications system. Loop detectors will be upgraded to current standards.

Changeable Message Sign

One existing CMS, which currently utilizes a phone line will be connected to the proposed communications system. One CMS is proposed in this project.

• Video and Data Nodes

One video and one data node equipment will be installed in this project.

• Railroad/Utility Involvement

There are no railroads involved in this project.

Highway Planting and Irrigation System

The existing system is complete and the controllers will be connected to the proposed communications system. Where planting is disturbed during construction, the site will be restored to its original condition.

The selected alternative of twisted pair cable and single mode fiber optic cable is the preferred communication distribution system. The SYSTEM WIDE DESIGN report was followed to provide details for implementation of the communications system.

B. Rejected Alternatives

The "no-build" alternative was considered in developing and analyzing system alternatives, but was eliminated due to the existing operational problems being experienced on the project area freeway and the ability to accommodate traffic management activities without the proposed TCRMS elements. The current system of dedicated, leased telephone lines result in high initial capital cost and continuing maintenance problems for the State. Leased telephone lines do not have the capacity for transmission of real-time video, but only for compressed digital images at considerable expense to the State. The alternative methods of wireless transmission would have limited bandwith, lack of ability to retransmit data, poor resolution quality, and difficulty in obtaining a license.

The "no-build" alternative would leave "visual holes" in the existing CCTV system, RMS, and TMS, and would leave a missing communications link in the fiber optic communications network defeating the objectives of the TCRMS.

The alternative of installing conduit along the right-of-way line was rejected because of the inaccessibility of maintenance equipment to splice vaults. Fiber splicing must be done in maintenance vehicles, which provide a clean enclosed environment. Also,

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this alternative was rejected because of the excavation of large quantities of lead contaminated soils, more disruption of landscaping during construction, difficulty in connecting to TCRMS elements, and problems encountered jacking under local streets at undercrossings and overcrossings.

VI OTHER CONSIDERATIONS

A. Hazardous Waste

A preliminary study was conducted. The potential for lead appears to exist along the unpaved shoulders. A site investigation will be performed during the PS&E stage of this project. The Site Investigation Report will indicate if special provisions are required for handling and disposal/reuse of soil.

B. Value Analysis

In an effort to provide a cost effective project, several proposed communication options were analyzed, along with the design criteria, to assure the most efficient configurations were used. A Value Analysis Study dated December 28, 1998 was completed. A decision has been made to use single mode fiber optic cable as the backbone of the system. Twisted pair cable will connect to all existing and proposed TCRMS data elements.

C. Resource Conservation

This project will greatly improve the reliability and efficiency of the current traffic surveillance system along these freeways. The new communication system will enable operators in the TMC to detect, verify, and manage incidents more efficiently. Overall traffic congestion and delay will be reduced, resulting in less fuel consumption. Accordingly, this project will contribute to the conservation of energy and nonrenewable resources.

During the construction phase existing CMS will be utilized along with signing developed in the Traffic Management Plan to move traffic efficiently through construction zones.

D. Right-of-Way Issues

All of the proposed work is within the existing right-of-way. No additional right-of-way is required. Construction of the proposed TCRMS elements can be performed within the existing right-of-way and without impacting the current road geometry.

E. Environmental Issues

The project is categorically exempt Class 1, section 1510.1c of Caltrans Environmental Regulations (see Attachments for the Categorical Exemption Sheet).

F. Air Quality Conformity

The proposed project is identified as a Traffic Management System (TMS) project and as such is consistent with the Regional Mobility Plan. At the project level, it will have a positive impact on reducing emissions and improving air quality due to reduction of overall traffic congestion and delay.

G. Title VI - Considerations

This project will not affect low mobility and monority groups. All work with the exception of pulling new wire in existing power cabinets and jacking conduit under public streets will be within the freeway right-of-way. When working in existing power cabinets on public property, every effort will be made to protect access of low mobility groups. Permits to Enter and Construct will be secured form the local jurisdictions for work done on public property. Permit to Enter and Construct shall also be obtained prior to construction.

H. Maintenance Considerations

Equipment installed by this project will require highly specialized maintenance personnel. Maintenance problems with leased telecommunication lines will be reduced or eliminated. Consideration of CCTV and CMS sites was based in part on the ability to provide adequate turnout or refuge areas for maintenance vehicles to facilitate safe and convenient access. These pullout areas are also available for use by the California Highway Patrol, emergency vehicles, and the public in general.

Camera poles within 9 m of traffic will use appropriate protective measures, and lane closures will be required for access to maintain field equipment where turnouts are not provided.

I. Highway Planting and Irrigation System

Impact to existing highway planting will be minimal. Where planting is disturbed during construction, the site will be restored to its original condition. Pruning/removing of trees may be necessary to maximize camera coverage. Where trees are removed, replacement trees will be planted. All planting disruption and surface restoration activities will be coordinated with District 7 Landscape Architecture staff.

VII OTHER CONSIDERATIONS AS APPROPRIATE

A. Traffic Management Plans

The hours available for contractor's operations will be regulated to off-peak hours and detailed within the special provisions to minimize the impact on existing traffic flows. Special Provisions will regulate the contractor's operations in the event that ramp or lane closures are required and the travelling public will be informed of the time and location where such construction will take place.

B. Future Design Considerations

The proposed communication system will provide a high degree of expandability. Additional CCTV sites and other TCRMS elements can be easily added at any location within the project limits. The fiber optic and twisted pair cables will have ample spare capacity to accommodate future TCRMS elements along Route 210, and a future communications system along Angeles Crest Highway.

VIII PROGRAMMING

The project will be funded from the SHOPP Contingency and programmed in the fiscal year 2001-2002. It is part of District 7 Master Plan and the type of work is consistent with the HB4N Program. The milestone schedule this project includes a begin design date of October 2000, a PS&E date of January 2002, an RTL date of March 2002, a contract award date of July 2002, and a project completion date of August 2004.

IX REVIEWS

A. FHWA Transportation Engineer

ROBERT CADY

Date reviewed:

September 14, 2000

B. HQ Traffic Reviewer

JERRY CHAMPA

Date reviewed:

March 2, 2001

C. HO Geometric Reviewer

JD BAMFIELD

Date reviewed: January 25, 2001

X PROJECT PERSONNEL

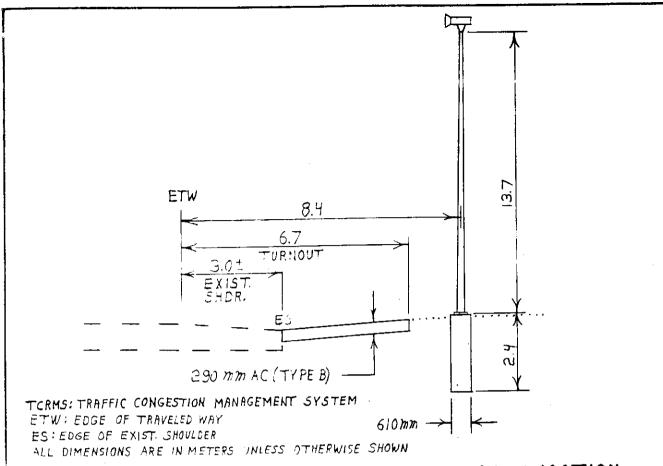
EDWARD KRAUSE, Project Engineer (Project Delivery) Office of ITS Development	CALNET 647-0270
JACQUELINE C. TAN, Senior Design Engineer Office of ITS Development	CALNET 647-4698
DAREK CHMIELEWSKI, Project Manager Office of Project Management-South	CALNET 647-8485
PATRICIA P. PEROVICH, Chief Office of ITS Development	CALNET 647-0334
JAY SHAH SHOPP Program Manager	CALNET 647-7985
GARY M. IVERSON, Senior Planner Office of Environmental Planning	CALNET 647-3818
JORGE G. CABRERA, Reviewer Office of R/W Planning & Management	CALNET 647-4800

XI ATTACHMENTS

- Location Map/Existing and Proposed Facilities
- TCRMS Elements Cross-Sections
- Cost Estimate
- Categorical Exemption
- R/W Data Sheet
- Hazardous Waste Investigations
- Cover Page of Original Project Report

Filename: SPR-LA210 KP30 3-40 2

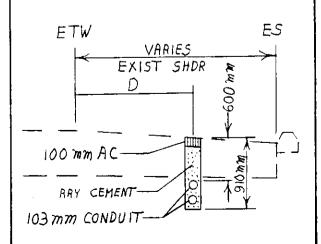
LOCATION MAP



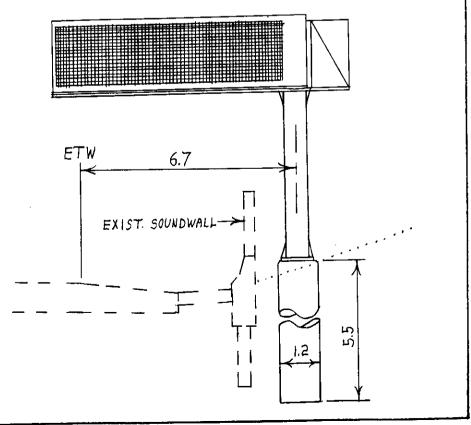
CLOSED CIRCUIT TELEVISION LOCATION



D: 1.8 FOR A 3.0 WIDE SHOULDER
1.3 FOR A 2.4 WIDE SHOULDER



CHANGEABLE MESSAGE SIGN



PROJECT REPORT COST ESTIMATE SUMMARY



Project Description:		
Limits	From Route 134 to Route 2 and ELA, SGV,	
	NWK, LAX, NHD Communication HUBs and TMC	
EA/Program	129971	
Proposed	Install Communication System	
Improvement (Scope)		
Phase		
S	SUMMARY OF PROJECT COST ESTIMATE	
	TOTAL ROADWAY ITEMS	\$5,059,000
	TOTAL STRUCTURE ITEMS	\$350,000
	SUBTOTAL CONSTRUCTION COSTS	\$5,409,000
	TOTAL RIGHT OF WAY ITEMS (Cert. Date 10/01/01)	\$21,000
	TOTAL PROJECT CAPITAL OUTLAY COSTS	\$5,400,000
Reviewed by Distr	ict Program Manager Mun (Signatufe)	6/25/61
Approved	by Project Manager Date Date	06/25/01
	Phone No. (213) 897-8485	

					07-LA-210 KP 30.3/40.2 (PM 18.8/24.9) EA 129971 From Route 134 to Route 2
Section 1 Earthwork Maintenenace Turnout (1) Clearing & Grubbing	Ouantity 5 LS	Unit EA LS	Unit Price \$25,000 \$20,000	Item Cost \$125,000 \$20,000	Section Cost
, ,			Subto	tal Earthwork	\$145,000
Section 2 Pavement Structure	ral Section				
Section 3 Drainage		Subtota	Il Pavement Strue	ctural Section	\$0
			Subt	otal Drainage	\$0

Section 4 Specialty Items Irrigation Modification Water Pollution Control Hazardous Waste Mitigation (Aerially Deposited Lead Soil Resident Engineer Office	Ouantity 1 1 1 1 1 1	Unit LS LS LS	Unit Price \$20,000 \$100,000 \$400,000 \$100,000 Subtotal S	Item Cost	<u>Section Cost</u> \$620,000
Section 5 Traffic Items Communication Conduit (2) CCTV Camera TMS/RMS CMS Video Node Data Node System Testing & Documentation	9,800 3 11 1 1 1	M EA EA EA EA LS	\$160 \$45,000 \$38,000 \$200,000 \$60,000 \$55,000	\$1,568,000 \$135,000 \$418,000 \$200,000 \$60,000 \$55,000	
Traffic Management Plan T-offic Control Systems rade TMS/RMS (1)	1 1 9	LS LS EA	\$30,000 \$200,000 \$25,000	\$30,000 \$200,000 \$225,000	
			Subtota	l Traffic Items	\$2,941,000
			TOTAL SECT	TONS 1 thru 5	\$3,706,000

(1) UPGRADE EXISTING LOOPS TO CURRENT STANDARDS

⁽²⁾ ESTIMATE INCLUDES CONDUITS, CABLES, PULL BOXES, SPLICE CLOSURES, INNERDUCTS TRAINING AND EQUIPMENT AT HUB

Section 6 Minor Items Subtotal Sections 1 thru 5	\$3,706,000	x (5%) =	<u>Item Cost</u> \$185,300	Section Cost
		TOTAL MI	NOR ITEMS	\$185,300
Section 7 Roadway Mobiliz Subtotal Sections 1 thru 5 Minor Items Sum	\$3,706,000 \$185,300 \$3,891,300	x (10%) =	\$389,130	
		TAL ROADWAY MOE	BILIZATION _	\$389,130
Section 8 Roadway Addition Supplemental Work Subtotal Sections 1 thru 5 Minor Items	\$3,706,000 \$185,300 \$3,891,300	x (5%) =	\$194,565	
Contingencies Subtotal Sections 1 thru 5 Minor Items Sum	\$3,706,000 \$185,300 \$3,891,300	x (15%) =	\$ 583,695	
		TOTAL ROADWAY	ADDITIONS _	\$778,260
		TOTAL ROADV	WAY ITEMS tions 1 thru 8)	\$5,059,000
Estimate Prepared By	Edward Krause (Print Name)	Phone # (213) 89	97-0270 DATE_	6-Jun-01
Estimate Checked By	Jacqueline Tan (Print Name)	Phone # (213) 89	<u> </u>	6-Jun-01

II-STRUCTURES ITEM	S	STRUCTURE		
Conduit Installation on Str	ucture	\$350,000	_	
		SUBTOTAL STR	RUCTURES ITEMS _	\$350,000
Railroad Related Costs	N/A	N/A	N/A	
		TOTAL STR	RUCTURES ITEMS _	\$350,000
COMMENTS:			USE _	\$350,000
COMMENTS.	•			
· · · · · · · · · · · · · · · · · · ·	dward Krause Print Name)	Phone #	(213) 897-0270	

III. RIGHT OF WA	Y ITEMS	ESCALATED VALUE	
	, including excess lands, remainder(s) and Goodwill	\$21,400	
B. Utility Relo	ocation (State share)		
C. Relocation	Assistance		
D. Clearance/I	Demolition		
E. Title and Es	scrow Fees	<u> </u>	
	TOTAL RI	GHT OF WAY ITEMS (Escalated Value)	\$21,000
		ght of Way Certification ch Values are Escalated)	10/1/2001
F. Construction	on Contract Work		
	Brief Description of Work:		
	Right of Way Branch Cost E	stimate for Work	
COMMENTS:			
Estimate Prepared	By: Norm Juarez	Phone# 213-897-1920	6-Jun-01
	(Print Name)		DATE

CATEGORICAL EXEMPTION CATEGORICAL EXCLUSION/PROGRAMMATIC CATEGORICAL EXCLUSION DETERMINATION FORM

07-LA-210	KP 30.3/40.2	129971	20010017
DistCoRte. (or Local Agency)	K.P./K.P.(P.M./P.M.)	E.A. (State project)	Proj. No. (Local project) (Fed.Prog. Prefix Proj. No., Agr. No.)
PROJECT DESCRIPTION: (Brid	efly describe project, purpose, loca	ation, limits, right-of-way require	-
Upgrading the Traffic Operations S trunklines, closed circuit television message sign. See the attached memo	cameras, ramp metering sy	stems, traffic monitoring st	ations, and a changeable
message sign. See the attached memo	that details the environmental	requirements for this project.	
CEQA COMPLIANCE (for State	e Projects only)		
 critical concern where design There will not be a significant place, over time. 	CCR 15300 et seq.) npt class 3, 4, 5, 6 or 11, it does ated, precisely mapped and offi cumulative effect by this projec ssibility that the project will have	cially adopted pursuant to law. t and successive projects of th	e same type in the same
 This project is not located on 	a a scenic resource within an off a site included on any list comp substantial adverse change in	iled pursuant to Govt. Code §	65962.5 ("Cortese List").
CALTRANS CEQA DETERMIN			
☐ Exempt by Statute (PRC 21080) Based on an examination of this propos ☑ Categorically Exempt. Class [1, C, can be seen with certainty that there is 15061(b)(3)])	or General Rule exemption	n (This project does not fall wil	thin an exempt class, but it
Gray Soll	10-24-00	Plan	10-24-00
Signature: Senior Environmental Pl	anner Date	Signature: Project Mana	ger Date
 This project does not involve This project does not involve the National Historic Preserv In nonattainment or maintenar plan and Transportation Imple This project is consistent with environmental aspects of this 	significant impact on the enviror substantial controversy on envi significant impacts on propertie ation Act. ance areas for Federal air qualit overnent Program or is exempt a all Federal, State, & local laws a action.	ronmental grounds. s protected by Section 4(f) of the standards: this project come form regional conformity.	the DOT Act or Section 106 of
PROGRAMMATIC CATEGORICAL EX Based on the evaluation of this pro 1990 Programmatic Categorical Exclusion	ect and supporting documentat	ion in the project files, all the c	conditions of the September 7,
CALTRANS NEPA DETERMIN	IATION		
Based on an examination of this propo	sal, supporting information, and	the above statements, it is de Programmatic Categorical	Exclusion
Signature: Senior Environmental P	الم - كال عن ا lanner Date (PM: for	Signature: Project Manage all State CEs / DLAE: for Loc.	er Date
FHWA DETERMINATION (if a	pplicable)		
Based on the evaluation of this project properly classified as a Categorical Ex		determined that the project m	eets the criteria of and is
	Signature: FHWA Tra	nsportation Engineer	Date
Additional information attached or documentation of exemption from repartionwide permit; § 7 species surve	referenced, as appropriate (e.g.	Mitigation commitments for NE	EPA only; Air Quality studies and or Programmatic §4(f); date of COE; design conditions. Rev. 8/2000

Memorandum

To: Ed Krause, ITS Development

DEPARTMENT OF TRANSPORTATION

Date: October 23, 2000

From: Jinous Saleh, Senior Environmental Planner

DEPARTMENT OF TRANSPORTATIONOffice of Environmental Planning

District 7

File No: 07-LA-210 (KP 30.3/40.2)

Upgrade Traffic
Operations System

EA: 129971 CE # 200010017

Subject: Environmental Requirements for CE

The following requirements need to be met in order for the attached CE to be valid. If there is any change to the scope of this project, this office must be notified and further studies may be required.

Biology

If any clearing, cutting or grubbing of trees or plants should be required for this job, this office must be notified two months in advance of any such work to arrange pre-construction biological surveys. If tree removal or trimming will take place, it should be scheduled to occur between September 1 and March 15 to avoid the nesting season. If trees must be trimmed and/or removed outside of this period, and nesting birds are present, coordination with the California Department of Fish and Game will be required to determine the appropriate course of action.

Hazardous Waste

A Hazardous Waste Site Investigation (SI) and any recommended remediation must be completed prior to any construction activities.

Cultural Resources

In the event that archaeological or historical materials are encountered during construction, all construction activities placing resources at risk must cease. This office will need to be contacted immediately and work cannot resume until approval is granted from the appropriate official.

Please contact Che McFarlin at (213) 897-2936 with any questions.

Memorandum

: Jacqueline Tan To

Office of ITS Development

Attn: Ed Krause

September 14, 2000 Date:

LA-210, KP 30.3/40.2 File:

Upgrade Traffic Operations System

7-388 - 129971

George T. Ghebranious

DEPARTMENT OF TRANSPORTATION From:

Hazardous Waste Unit

Subject: Hazardous Waste Assessment

This is response to your request for a hazardous waste assessment for inclusion in a project report. The work consist of installing communication conduit in the freeway shoulder, placing pile foundations and installing turnout for the maintenance access from the freeway. Based on the available information, our assessment are as follows:

The potential for aerially deposited lead appears to exist along the unpaved shoulders. A Site Investigation (SI) will have to be performed to determine the extent of possible contamination. The completed SI Report will indicate if special provisions are required for handling and disposal/reuse of soil. The study will commence upon receipt of the request from your office and will take a minimum of 90 days to obtain the final results. Request for the study should be prior to the PS&E district circulation.

If you have any questions or require additional information, please call June Obayashi at Ext. 7-3808.

Hazardous Waste Coordinator

North Region

Mitigation and Compliance Cost Estimate

Dist.-Co.-Rte.-KP: 07-LA-210 KP 30.3/40.2

EA: 129971

Project Description: Upgrading the Traffic Operations System (TOS) along I-210 from SR 2 to SR 134 by installing fiber optic trunklines, closed circuit television cameras, ramp metering systems, traffic monitoring stations, and a changeable message sign

Person completing form/Dist. Branch: Che McFarlin/OEP

Project Manager:

Phone number: 7-2936

Date: October 12, 2000

		Mitigation		Compliance
	Project Feature ¹	Environmental Obligation ²	Statutory Requirement. ³	Permit & Agreement ⁴
Fish & Game 1601 Agreement	0	0	0	0
Coastal Development Permit	0	0	0	0
State Lands Agreement	0	0	0	0
NPDES Permit	0	0	0	0
COE 404 Permit- Nationwide	0	0	0	0
COE 404 Permit- Individual	0	0	0	0
COE Section 10 Permit	0	0	0	0
COE Section 9 Permit	0	0	0	0
Other:	0	0	0	0
Noise attenuation	0	0	0	0
Special landscaping	0	0	0	0
Archaeological	0	0	0 '	0
Biological	0	0	0	0
Historical	0	0	0	0
Scenic resources	0	0	0	0
Wetland/riparian	0	0	0	0
Other:	0	0	0	0
TOTAL (Enter zeros if no cost)	0	0	0	0

• Costs are to be reported in \$1,000's.

 Costs are to include all costs to complete the commitment including: capital outlay and staff support; cost of right-of-way or easements; long-term monitoring and reporting, and; any follow-up maintenance.

• After approval by the Project Manager a copy of the completed form is to be included in the PR/PSSR and a copy sent to Headquarters Environmental Program, attention: John Hebner.

¹ Mitigation Caltrans would normally do if not required by a permit or environmental agreement.

² Mitigation Caltrans would not normally do but is required by conditions of a permit or environmental agreement.

³ Mitigation Caltrans would not normally do and is not required by a permit or Environmental. agreement but is required by a law.

A Non-mitigation Caltrans would not normally do but is required by conditions of a permit or agreement.



PROJECT REPORT

APPROVED BY:

.7-LA-2 14.5/24.6 Route 5 to Route 210

7-LA-14 R24.7/R74.2

5/14/95 C.J. O'CONNELL Date

Route 5 to Route 48 (Avenue D)

C.J. O'CONNELL District Division Chief Division of Operations 7-LA-30 R0.0/R2.7 Route 210 to Route 66 (Foothill Blvd.)

7-LA-47/103 R0.0/4.6 & 0.0/1.6 From Route 110 to Willow Street

APPROVAL RECOMMENDED BY:

7-LA-60 R25.4/R30.5 Route 57 North to San Bernardino County Line

STEGORY B. DAMICO, P.E. Date
Project Manager

7-LA-71 R0.33/4.8 From Route 10 to San Bernardino County Line

Office of IVHS Development 7-LA-13
Route 1

7-LA-134 0.0/R13.4 Route 101 to Route 210

CONCURRED BY:

7-LA-210 R0.0/R48.6 Route 5 to Route 10

PATRICIA P. PEROVICH, P.E. Date Chief, Office of IVHS Development

ELA, NHD, SGV, NWK, LAX Communication Hubs

CCTV, CMS, HAR, RMS, TMS, AVC, VSAT Satellite Hub, FSE and Communication System

District 7 TMC

07393-129900 HB4N TOS #4 T-6378

Category 242

I. INTRODUCTION

It is proposed to construct a Traffic Operation System (TOS) supported by a communications system comprised of an optical fiber cable based Wide Area Network (WAN) and a VSAT (Very Small Aperture Terminal) satellite based WAN that will accommodate the voice, data, and video requirements for a complete Advanced Traffic Management System (ATMS) within District 7. The ATMS elements include Closed Circuit Television (CCTV) cameras, Changeable Message Signs (CMS), Highway Advisory Radio (HAR) stations, Ramp Metering Stations (RMS), Traffic Monitoring Stations (TMS), and Automatic Vehicle Classification (AVC) stations. The communication system will also support communication with such elements as automatic irrigation control systems, pump and tunnel Supervisory Control and Data Acquisition (SCADA) systems, signal controllers, Weigh-in-Motion (WIM) stations, and automated weather stations (AWS). The communication system will also be able to accommodate communication services for a Toll Plaza. This project will accommodate a future expanded Intelligent Transportation System (ITS) for District 7. The proposal calls for construction along Route 2 from Route 5 to Route 210; Route 14 from Route 5 to Route 48 (Avenue D); Route 30 from Route 210 to Route 66 (Foothill Boulevard); Route 47/103 from Route 110 to Willow Street; Route 60 from Route 57 North to San Bernardino County Line; Route 71 from Route 10 to San Bernardino County Line; Route 134 from Route 101 to Route 210; and Route 210 from Route 5 to Route 10 (refer to Exhibit 1). Cost for this project is estimated at \$49.87 million to be funded from various programs in fiscal years 1996/97 through 2000/01.

II. PROJECT CATEGORY

This is a Category 5 project. On the basis of the definition in Section 2-5.2 (5) of the Project Development Procedures Manual (PDPM) and the finding of the Office of Environmental Planning, this project is categorically exempt under Class 1 of Caltrans environmental regulations.

III. BACKGROUND

This project is the fourth in a series of traffic operational system projects being implemented to provide Caltrans District 7 the ability to manage traffic operations throughout the Los Angeles area. The following discussion presents background information for the freeway facilities included in this TOS project.

Route 2 (Glendale Freeway) is an eight lane facility originating just north of downtown Los Angeles and terminating at Route 210 in La Canada. The Glendale Freeway serves as a primary commuter route for vehicles traveling between downtown Los Angeles and the northern portion of the San Fernando Valley. The above commuting patterns result in traffic congestion southbound in the AM peak hour and northbound in the PM peak hour.

new-75-pri-66-REV 7-1-99 R/W DATA SHEET FOR WBS REVISED TO: ED KRAUSE SCOPING REPORT UPDATED ATTN: DATE: 6/6/01 PHONE 7 PLEASE INITIAL ROUTE: la 210 DATE (1)SENIOR R/W P&M PM/KM 31/40-(2)CAPITAL COORDINATOR-RM 303 E.A: 129971 OPROJECT FILE ARCHIVE COORD-R M 306 ALT: (4) PROD.COORDINATOR PROJ. DESC. tos Install

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UTILITY INFORMATION AND ESTIMATED COST REQUEST

TO:NORM JUAREZ-UTILITY COORDINATOR	Room 334	# 7-1920
TO:UGO ANAKWENZE-UTE ITY ENGINEER		

DATE: 5/30/01

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P.M. 31/40-
E.A.: 129971

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DESC: tos install

CONTACT ED KRAUSE

PHONE

PLEASE PROVIDE THE NECESSARY UTILITY COST AND DATA REQUIRED TO COMPLETE THE UTILITY SHEET BELOW .THIS DATA WILL BE USED IN THE DATA SHEET. PLEASE PROVIDE THIS INFORMATION WITHIN THE NEXT TWO WEEKS. ATTACHED ARE THE FOLLOWING DOCUMENTS

1-MAPS x 2-REPORTS

TOM MCVARISH
PLANNING AND MANAGEMENT.

PLEASE COMPLETE PER UTILITY MANUAL- PAGE 1 EX 13-8

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RETURN TO MCVARISH